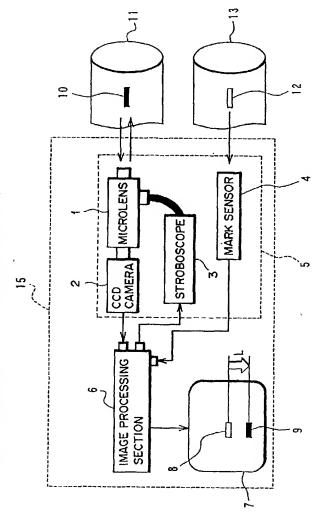
BLOCK DIAGRAM OF A ROTATIONAL PHASE DIFFERENCE DETECTING SYSTEM OF A FIRST EMBODIMENT OF THE PRESENT INVENTION



5 : MEASURING SECTION

7 : DISPLAY SECTION

8 : REFERENCE POSITION FOR AN IMAGE PROCESSING MARK

9 : DETECTED POSITION OF AN IMAGE PROCESSING MARK

10 : IMAGE PROCESSING MARK

11, 13 : PRINTING ROLL

12 : REFERENCE MARK

15 : ROTATIONAL PHASE DIFFERENCE DETECTING SYSTEM

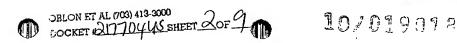
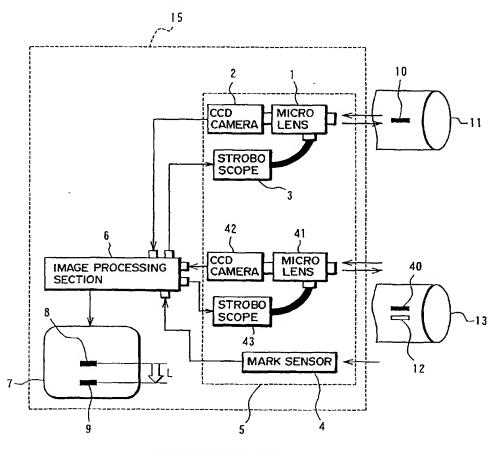


FIG. 2

BLOCK DIAGRAM OF A ROTATIONAL PHASE DIFFERENCE DETECTING SYSTEM OF A SECOND EMBODIMENT OF THE PRESENT INVENTION



5 : MEASURING SECTION

7: DISPLAY SECTION

8 : REFERENCE POSITION FOR AN IMAGE PROCESSING MARK

9 : DETECTED POSITION OF AN IMAGE PROCESSING MARK

10 : IMAGE PROCESSING MARK

11, 13 : PRINTING ROLL

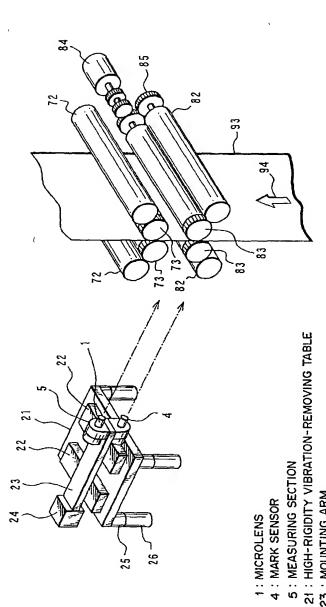
12 : REFERENCE MARK

15 : ROTATIONAL PHASE DIFFERENCE DETECTING SYSTEM

40 : IMAGE PROCESSING MARK

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CONSTRUCTION DIAGRAM OF THE MEASURING SECTION IN THE EMBODIMENT OF THE PRESENT INVENTION



4 : MARK SENSOR 1: MICROLENS

5 : MEASURING SECTION

23 : MOUNTING ARM

24: COUNTER WEIGHT 25: FINE VIBRATION-REMOVING SECTION 26: COLUMN 40: PRINTING MACHINE

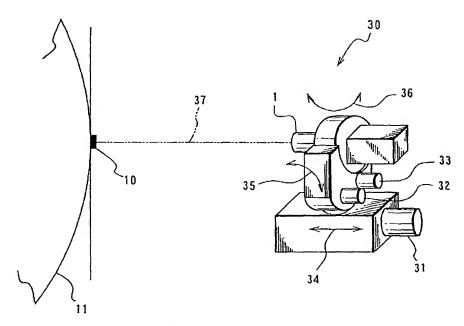
72, 82 : PLATE CYLINDER ROLL 73, 83 : PRINTING ROLL 84 : ROLL DRIVE MOTOR 85 : DRIVING GEAR

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CONSTRUCTION DIAGRAM OF THE FINE-ADJUSTMENT ACTUATOR IN THE EMBODIMENT OF THE PRESENT INVENTION



1: MICROLENS

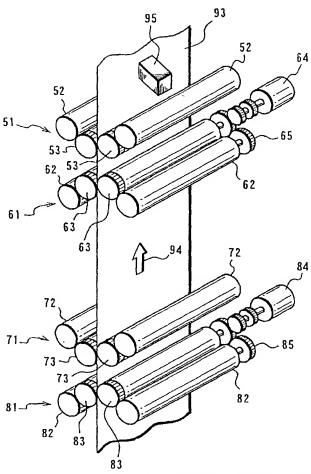
10: IMAGE PROCSSING MARK

11: PRINTING ROLL

30 : FINE-ADJUSTMENT ACTUATOR

31, 32, 33 : MOTOR

37 : OPTICAL AXIS



51 : BLACK PRINTING SECTION

61 : YELLOW PRINTING SECTION

71 : RED PRINTING SECTION

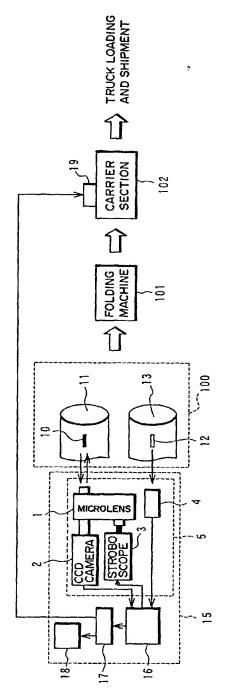
81 : BLUE PRINTING SECTION

52, 62,72,82 : PLATE CYLINDER ROLL 53,63,73,83 : PRINTING ROLL

64,84 : ROLL DRIVE MOTOR

65,85: DRIVING GEAR 93: PRINTING PAPER

95: CAMERA

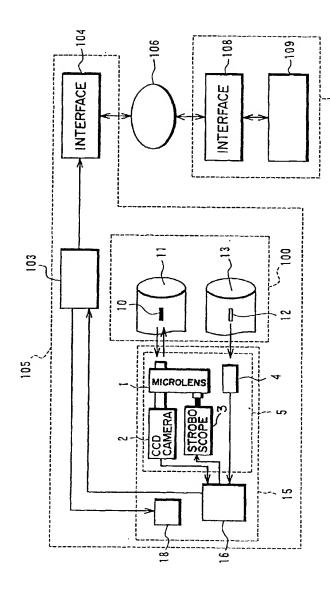


15 : ROTATIONAL PHASE DIFFERENCE DETECTING SYSTEM
16 : ROTATIONAL PHASE DIFFERENCE CALCULATING SECTION
17 : ROTATIONAL PHASE DIFFERENCE DECIDING SECTION
18 : DISPLAY SECTION
19 : ALARM DEVICE

10 : IMAGE PROCESSING MARK

12 : REFERENCE MACK 11,13 : PRINTING ROLL

4 : MARK SENSOR 5 : MEASURING SECTION



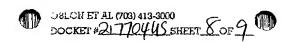
16 : ROTATIONAL PHASE DIFFERENCE CALCULATING SECTION

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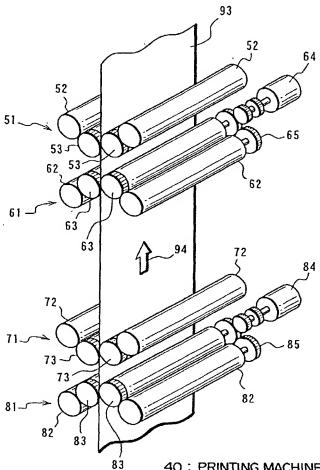
18 : DISPLAY SECTION

103 : M/C OPERATION CONTROL PANEL 105 : FACTORY-SIDE SYSTEM

106 : TRANSFER MEDIUM 107 : REMOT-SIDE SYSTEM 109 : ROTATIONAL PHASE DIFFERENCE DECIDING SECTION



OUTLINE DIAGRAM OF AN OFFSET ROTARY PRINTING MACHINE



40 : PRINTING MACHINE

51: BLACK PRINTING SECTION

52, 62, 72, 82 : PLATE CYLINDER ROLL

53,63,73,83: PRINTING ROLL

61: YELLOW PRINTING SECTION

64,84: ROLL DRIVE MOTOR

65,85 : DRIVING GEAR

71: RED PRINTING SECTION

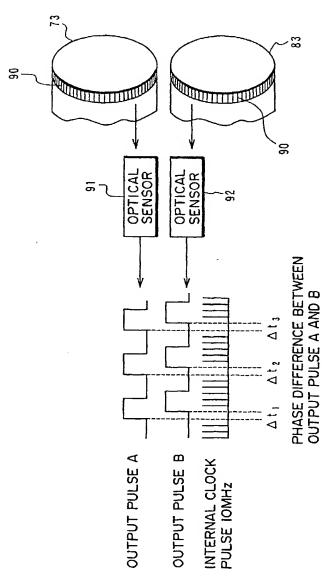
81: BLUE PRINTING SECTION

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EXPLANATORY DIAGRAM OF A CONVENTIONAL PHASE DIFFERENCE DETECTING METHOD



73, 83 : PRINTING ROLL 90 : BLACK-AND-WHITE PATTERN